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FIRST ANNUAL CATALOG OF THE NEW YORK STATE SCHOOL OF AGRICULTURE



At Alfred University, Alfred, N. Y.

For School Year 1910-1911

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School Calendar, 1910-11

Registration Day	-	-	-	-	Oct. 17, 1910
School work begins	-	-	-		Oct. 18, 1910
Christmas Recess begins	-	-	-		Dec. 22, 1910
School work begins	-	-	-		Jan. 2, 1911
First term closes	-	-	-	-	Jan. 13, 1911
Second term begins	-	-	-		Jan. 14, 1911
Second term closes	-	-	-	-	Apr. 7, 4:30 P. M.

Board of Managers

Boothe C. Davis, Ph. D., President,	Alfred, N. Y.
Elwood E. Hamilton, Secretary,	Alfred, N. Y.
William H. Crandall	Alfred, N. Y.
D. Sherman Burdick,	Alfred, N. Y.
Vernon A. Baggs,	Alfred, N. Y.
Judge Peter B. McLennan,	Syracuse, N. Y.
Dr. Daniel Lewis,	New York City.
John J. Merrill,	Albany, N. Y.
Charles Stillman,	Alfred, N. Y.
Charles C. Chipman,	New York City.
Frank Sullivan Smith,	New York City.

Ex-Officio Members

R. A. Pearson, State Commissioner of Agriculture.

L. H. Bailey, Director of the State College of Agriculture.

F. N. Godfrey, Master of State Grange.

Executive Committee

Boothe C. Davis, Ph. D., President,

Elwood E. Hamilton, Secretary,

William H. Crandall,

V. A. Baggs,

D. S. Burdick,

Charles Stillman.

School Faculty

BOOTHE C. DAVIS, Ph. D., President,
Rural Sociology and Ethics.

O. S. MORGAN, Ph. D., Director,
Horticulture

W. TRUMAN CRANDALL, B. S.
Animal Husbandry.

MISS ANGELINE WOOD,
Domestic Science and Arts.

C. O. DuBois, B. S.,
Farm Mathematics and Field Crops.

JOHN M. McLENNAN, Ph. M.,
Superintendent of State School Farm.

LINTON B. CRANDALL, S. B.,
Drafting and Shopwork.

DAVID H. CHILDS, S. B.,
Chemistry

JAMES D. BENNEHOFF, S. M.,
Physiology.

Several instructors have not yet been chosen as this catalog goes to press.

Introduction

The State School of Agriculture at Alfred University, Alfred, N. Y., was established by act of the Legislature in 1908 and approved by Governor Chas. E. Hughes, May 6, 1908. At that time \$75,000 became available for the purpose of erecting all necessary buildings and buying a farm of not over 300 acres, buildings to be erected and farm purchased upon the approval of the Board of Managers, the State Commissioner of Agriculture and the State Architect.

After specifications had been made for the school building and the barn it was seen that \$75,000 would not build and equip the necessary buildings, since the school and barn unequipped cost respectfully, \$42,000 and \$20,000. Therefore, an additional appropriation of \$40,000 was made by the Legislature of 1909 for the purpose of erecting a dairy house, a green-house, and other necessary buildings and providing necessary equipment.

The maintenance, as voted by the Legislature and approved by the Governor for year 1909-10 was \$20,000. Doubtless the State will do equally well or better for the year, 1910-11.

A 230-acre farm, one-half mile from the site of the School buildings, was purchased. Some sixty head of cattle, and horses of the various types are kept on the farm, a majority of which are registered. Variety tests of corn, oats, barley, hay crops, etc., will be carried on at the Farm this summer. A young orchard of 200 trees is just getting under way. A spraying demonstration on 5 acres of bearing orchard is in progress. The barn, equipped with modern conveniences, is building. Such an equipment forms a most valuable addition to the instructional and demonstrational work, in the class-rooms and laboratories of the School.

A four-storied, 50x100-foot school building of brick and stone has just been completed. Its ten laboratories are planned for the following purposes: for soils and plant work, stock and machinery judging, forge and wood work, field crops, physics, agricultural botany, zoology, cooking, sewing and laundry. Besides these rooms are the class-rooms, assembly rooms and agricultural library. Regular work was taken up in Agricultural Hall, Jan. 24, 1910.

Two additional laboratories will be opened in the fall, namely, the dairy house and the green-houses. The dairy house work will exemplify all phases of marketing dairy products in the common forms of milk, butter and cheese. Each student, in the dairy laboratory, will make butter and cheese, will test milk, cream, skimmilk,

buttermilk, whey, butter and cheese, and will have the opportunity of using the best modern dairy equipment that is practicable on the farm and in small butter and cheese factories. Special attention will be given to the production on the farm of high grade, sanitary milk.

The Green-houses will be arranged with a view to making them a practical plant laboratory, in which the principles of plant growth can be demonstrated. Each student will have his individual plot and his individual experiments. This laboratory will in some measure offset the disadvantages of holding the school during the winter, when so little can be done with plants out-of-doors.

Object

The object of the School of Agriculture is that of a high school of agriculture, and not of a college of agriculture. This School is one of three State Schools of Agriculture. The Alfred School, the only one in western New York, is located at Alfred University, Alfred, N. Y. Its object is to prepare young people to lead successful lives in the country. The courses prepare for living in the country, whether that living contemplates actual farming, farm management, or teaching in the country school. This object will be clearly interpreted by referring to the course of study and its appended outline of courses of instruction.

Admission

Students who are 14 or 15 years of age will be admitted if they have completed the common school course or the work of the eight grades of a city school. Students 16 years of age or older will be admitted without such preliminary preparation, provided they can satisfy the Director of the School that they can intelligently and profitably pursue the course which they elect. Students upon applying should be in good health, have had some practical experience on the farm, and be of good moral character.

Location of School

The School is located ten miles west of Hornell on the Erie Railroad, in Allegany County, in the village of Alfred, N. Y. The campus joins that of Alfred University. The School Farm is one-half mile from the main school building, Agriculture Hall.

Many advantages will accrue to students attending the School from this location in Alfred. Alfred is a college town, made up of earnest, hard-working people. The college spirit is strong and clean. Many intellectual treats are open to the School students because it is so favorably located in connection with college and preparatory school. There is every indication that Academy, College and School

students will mingle to mutual advantage and with increasing goodwill.

Students are urged by precept and example to affiliate with the Christian organizations of the College, School and village. There are no saloons in the village and never have been. It is not likely because of the staunch citizenship of Alfred, that there ever will be. These strong factors of college, School and village life all tend to produce an uncommonly healthful surrounding for students.

School Year

The school year is six months long, and consists of two terms of twelve weeks each. Farm work in this section of the state is fairly out of the way by the middle of October, spring work seldom takes up in earnest before the second week of April. Thus six months in school can be taken most advantageously by students from the country. There are few holidays because a day out of the term adds a day to the length of the school years, and a majority of the students wish to enter as late as possible in the fall and leave as early as possible in the spring.

Graduation

Upon the satisfactory completion of the Regular Course, as outlined on pages 8-10 of this Catalog, the student will be presented with a diploma which will constitute a record of the School work done. Arrangements are in progress whereby a School student, presenting his diploma to the Registrar of the College of Agriculture at Cornell University, may receive credit for work satisfactorily completed in the Alfred School. Just how much credit will be awarded must remain undetermined until graduates of the School present themselves at the College of Agriculture at Cornell for advance credits in the regular and special courses.

Expenses

Tuition is free to all students who are bona fide residents of the state for one year prior to admission to the school. The tuition charge for students from without the state is \$16 a term.

Laboratory fees where charged will be nominal, simply enough to prevent carelessness on the part of students.

The estimated cost of living per month is itemized below:

Board (at \$3.50 per week)	-	-	-	\$14 00
Room, light and heat	-	-	-	4 00
Laundry	-	-	-	1 50
Books	-	-	-	1 50
Estimated total for the year	-	-	-	\$126 00

Board and room, including fuel and light, can be had in private families at from \$3.00 to \$5.00 per week. Board can be had in clubs at from \$3.00 to \$4.00 per week.

For young women who apply early, rooms and board can be engaged in the women's dormitory, Ladies Hall; board at \$3.50 a week, room at from 60 cents to 75 cents per week. Plans are being laid to furnish more elaborate dormitory facilities for young ladies of the school.

At the farm, one-half mile below Agricultural Hall, a dormitory that will accommodate twenty boys, has been successfully operated the past year. Those who put in application early enough will be able to secure accommodations there. The cost of board and room in this dormitory, called "Farmers' Club," is \$4.00 a week.

Self Support

There is abundant opportunity for students so desiring to earn a part of their expenses through waiting on table, working about the school and on the farm, and doing odd jobs about the college and in the village. This year and next spring and summer there will be building and grading in progress on the school and farmstead sites, hence there will be unusual opportunity for those students who are ready to turn their hands to account in this way. The enterprising and capable young man or young women who attends the school will be able to lower, materially, the cost as set down above.

It should be borne in mind, however, by all prospective students, and by parents sending their sons and daughters to school, that a school or college is the place to invest time and money, and therefore the minimum amount of time should be spent in activities aside from those that directly promote education. A far wiser use of time in general consists of earning enough money during the summer months to defray the expense of living during the months of study in the School.

COURSE OF STUDY

FIRST YEAR

TERM I

BOYS		BOYS AND GIRLS		GIRLS	
Farm Dairying	4			Cooking I	3
Forge Work	5			Sewing I	2
Cement Work	1			Drawing I	2
				Agriculture	3
		Botany	3		
		Physics	3		
		Arithmetic	2		
		English I	3		
		Music I	1		

TERM II

BOYS		BOYS AND GIRLS		GIRLS	
Breeds	4			Agriculture	3
Drawing	4			Cooking II	2
				Sewing II	3
				Laundry	1
		Chemistry I	3		
		Hygiene	3		
		Farm Accounts	2		
		English II	4		
		Rural Sociology	1		
		Music II	1		

SECOND YEAR

TERM III

Farm Crops	5			Cooking III	3
Woodworking I	4			Sewing III	2
Farm Surveying	2			Drawing II	3
				Millinery I	2
		Butter Making	3		
		Chemistry II	3		
		English III	3		
		Poultry	2		

TERM IV

Climate & Soil				Cooking IV	2
Studies	5			Sewing IV	3
Woodworking II	4			Millinery II	1
Stock Judging	2			Food Studies	3
Fertilizers	2			House Plans	2
Poultry	2				
		Cheese Making	3		
		General History	3		
		English IV	2		

THIRD YEAR

TERM V

Forestry	2			Cooking	2
Feeds and Feeding	4			Sewing	3
Breeding	3			Home Nursing	3
Creamery Practice	2			Food Adulteration	1
Farm Machinery	2			Household Bact'gy	1
		Plant Diseases	3		
		Gardening	2		
		General History	5		
		Music III	1		

TERM VI

Orcharding	3	Cooking	2
Dressing and Curing		Sewing	2
Meats	1	Home Sanitation	2
Veterinary Studies	3	Home Decoration	2
Farm Building	4	Art Needlework	2
Farm Management	2	Household	
		Management	2
Insect Pests	3		
Landscape			
Gardening	2		
Civics	2		
Farm Law	1		
Music IV	1		

NOTE.—The figures after all the studies indicate how many times each week during the term, classes are called in the various studies.

In many cases provisions can be made for students, who desire to do so, to stay during the summer upon the School Farm or some modernly operated farm. This provision will be attempted for all students, because the student should spend at least one season when crops are growing and maturing, upon a farm that is under successful scientific management, and where at the same time he can receive scientific advice. This supplement of one summer term to the regular School course would most surely enhance the value of the schooling to the student.

The Faculty of the College of Liberal Arts will give credit on the college courses for a minimum amount of work done in the School of Agriculture. That is, there are certain studies of general and technical grade offered by the School which are accredited by the Alfred University.

There are several supplementary features not set down in the course; such as, parliamentary drill in the "Country Life Club," the literary and scientific society of the School, regular gymnastic practice, instruction in proper social forms, and occasional lectures by noted specialists in country life activities.

Special Courses

For those students who cannot complete the regular course, and can stay for but one, two or more terms, the best possible selection of studies and practice work will be arranged with a view to using to the best advantage the time that can be spent in the School. If you cannot enter for the regular course, or for even one year of the regular course, and if you can get away from the farm for a



Stock Judging Room

month or two, come to the School and a course will be arranged for you, to the end that you may have some use of this, your school.

Farmers' Week

In the past two years there has been at some time during the winter, a "Farmers' Week." The State Department of Agriculture co-operating with the School, has furnished a program of demonstrations and technical lectures on farm life problems throughout four days and evenings. Most of the lecture periods offer a choice between two or three lectures so that in the four days between seventy and eighty lectures are given. The School sends out special announcements of the Week to all who send in their addresses. The Farmers' Week presents an unusual educational opportunity for actual farmers to become informed on recent agricultural progress. Board and lodging expenses are moderate and no fee is set on attendance.

Courses of Instruction

Note: These courses are arranged alphabetically

Agriculture I and II 3h.

This course gives a survey of the chief farm activities. Some of the topics studied are; on the plant side: breeding, propagation, food, soil, fertilizers, farm crops, enemies, systems of cropping, and feeds; on the animal side: horses, cattle, sheep, swine and poultry; and finally the general subject, farm management.

Art Needlework 2h.

The different kinds of embroidery and fancy stitches are taught and applied to table linen, table covers, and waists.

Breeds 4h.

A study of the common breeds of the four principal classes of live stock, including their history, adaptability, characteristics, etc. Practical work in scoring the various animals and in comparing individuals of the same and of different breeds is taken up. Some pedigree work is done to acquaint the student with methods of registration and with some of the members of noted families.

Breeding 3h.

Breeding is an advanced course taking up the principles and general laws of breeding; heredity, variation and selection; in and in breeding, line breeding; and the application of these laws to herds; and herd management during breeding operations.

Botany 3h.

The course includes lectures and demonstrations on the properties of the air and of the common elements which enter into the composition of the plant; parts of the seed and the function of each; tests for starch and protein; method of growth of seeds as influenced by heat, moisture, light and air; germination tests; study of the root, stem and leaves; relation of osmosis to plant nourishment; study of the inflorescence of common flowers, wheat and corn; and the development of fruits.

Butter Making 3h.

This is an advanced course in farm butter making. Laboratory work in cream separation, cream ripening, churning cream to obtain the best flavor, color, etc., are offered among the laboratory exercises.

Cement Work 1h.

A study of cements, sand, gravel, and the methods of mixing to make concrete for various purposes useful on the farm; also the building and filling of the forms, methods of waterproofing, and the adaptability of concrete to the uses of the farmer.

Chemistry I 3h.

The work in Chemistry is marked by a large amount of laboratory work, supplemented by class drill and frequent reviews. The ability to observe accurately and to make deductions therefrom is developed throughout the course. The course includes the study of air, water, combustion, the metals and non-metals, acids, bases, salts, neutralization, the chemical equation, and simple chemical calculations. Examples are taken largely from agriculture and domestic subjects.

Chemistry II 3h.

This course includes the study of ash and the organic compounds in plants; the chemistry of plant growth; feeding value of crops and of mill products; fermentation, and digestion. This work is planned as a scientific foundation for the courses in animal and plant husbandry, soils and fertilizers.

Cheese Making 3h.

This course is largely laboratory work. The making of Cheddar cheese is principally considered.

Climatology 2h.

This course instructs the student in the use of the weather forecast; tabulating of data obtained from the rain gage, the barometer and the thermometer; the cause of prevailing winds and the origin of storms; the government method of forecasting weather; a study of weather maps; plotting maps for weather forecasts, comparing prediction with government maps of same date, and operating the weather station located at the School.

Cooking

I. 3h. The elementary work in cooking begins with a brief study of the kitchen, its furnishings and their care. Air, water and food in their relation to life are then considered. Food materials are classified according to their uses in the body. The effect of heat on the various food nutrients are studied, followed by the different methods of cooking. Each class of foods is then taken up separately with lessons on the preparation of cereals, vegetables and meats for the table.

II. 2h. This course takes up a study of flour and the flour

mixtures. The different means used for lighting flour mixtures are given, with experiments in the action of baking powders and yeast. Six lessons are given exclusively to bread making.

III. 3h. Lessons are given in this course on canning, jelly-making, pickling and preserving. These are followed by salads and desserts. Lectures on table laying and serving are given as a preliminary to the work of the following term.

IV. 2h. The relative value to the body of the different food nutrients is studied and the proportion of nutrients needed to give a balanced diet. This is followed by practical work in the planning and serving of meals.

V. 2h. As diet plays an important part in the recovery from disease, a course in invalid cookery is given. This includes liquid diet, light diet, beverages and diet for special diseases. Attention is given also to the invalid's tray and the proper serving of the meals.

VI. 2h. The courses in practical cooking are followed by a course in food chemistry with laboratory work. This will include a study of the chemical composition of the food materials and the chemical changes involved in the processes of cooking.

Drawing 4h.

The aim of this course is to give the students a working knowledge of how to make and use working drawings for any purpose. The proper use of tools and drawing materials is emphasized and accuracy and neatness are insisted upon. The finished drawings made in this course are used in the shop work following.

Drawing and Shop Work

The object of the shop work in the School of Agriculture is not to teach the boys to become carpenters and blacksmiths, but to give them enough of this training to make them independent of the carpenter and the blacksmith for the little repairs which often are most needed at a time when the farmer is least able to go to town to have this work done. It is also the purpose of this instruction to encourage the boys to make all the repairs possible for the summer season during the winter months when work is least crowding.

Drawing I 2h.

The object of the following courses is to develop practical good taste in the student so that she will be able to plan and furnish a restful, artistic home at small expense.

This course is a consideration of beauty and the means of producing it. It consists of exercises in making finely proportioned division of space in surface decoration, well-balanced arrangement of dark and light, and harmonious coloring.

Drawing II 2h.

This is a continuation of the first course, adding the application of design to special uses.

It also includes free-hand perspective drawing in the representation of simple objects.

Drawing III 3h.

This course deals with the application of the principles of beauty to household decoration. Actual work will be done in the making of window and door hangings, couch and table covers, and pillows and rugs.

Emergencies 1h.

This course of lectures aims to suggest treatment necessary in various forms of accident and injury. The prompt checking of severe hemorrhage, and the cleansing and antiseptic dressing of wounds are considered in detail. Lessons are given on the temporary treatment for sprains, dislocations and fractures. The different forms of unconsciousness and treatment therefor vary from the simple faint to the apparent drowning for which methods to induce respiration are given. The uses of the emergency and roll bandages are demonstrated and practiced by the class.

English I and II 3h. and 4h.

This course is elementary. It devotes one hour a week to spelling, one hour to composition and one hour to grammar. In the second term one additional hour is given to the study of reading. Throughout the course special pains are taken to help students form correct habits of speaking and writing.

English III and IV 3h. and 2h.

The second year of work in English is devoted to giving increased facility in the use of composition and to familiarizing students with some of the simpler literary masterpieces. English IV lays special emphasis upon public speaking.

Farm Accounts 2h.

This course considers the use of the day book; and of the cash-book ledger. Much practice in arranging data is given under the proper heads. Special points taken up are the advantages of making all payments by checks, easy methods of filing all bills and receipts, and the making of inventories and balance sheets. The method used enables the farmer to keep in two books, without the use of differently colored inks, and with a minimum time for recording, an accurate double entry system of farm accounts.



Woodworking Shop

Farm Arithmetic 2h.

The course in arithmetic aims to develop speed and accuracy in the problems pertaining to the business of the farm. It includes a review of fractions and percentage; short methods of computing interest and partial payments; methods of measuring land other than rectangular forms; ways of measuring stacks, bins and mows; percentage composition of simple chemical compounds; reason for the graduation of milk and cream testing bottles; and principles of computing balanced rations.

Farm Buildings 4h.

The students are taught to work out the plans for the different farm buildings, to draw up specifications, to make out the bills for materials, to figure the cost of the different parts of the work, and supervise the work or do it themselves. The latter part of the course is spent in making models of some of the buildings planned.

Farm Dairying 4h.

Class and laboratory work is given in this course on the Babcock test, acid and lacto-meter tests; and cream separation and butter making under farm conditions. It is an elementary course required of those taking advanced work in dairying.

Farm Machinery 2h.

This is a study of the machines used upon the farm including the various types of farm motors. The actual machines will be available as far as possible for this work and will be taken apart and re-assembled by the students. The principle on which each is constructed will be discussed as well as methods of adjustment and repair.

Farm Management 2h.

This course includes a study of the relation of capital and the personal qualifications of the farmer to the type of farm selected, the buying or renting of the farm, the arrangement of the fields and buildings, the purchase of the stock and machinery, the method of determining the system of farming to be followed, the crops to be sold, the method of selling and the income expected, the business relation of the farmer, the labor question on the farm and farm problems.

Farm Surveying 2h.

Much of the work for which a surveyor is now hired may be done by the intelligent farmer. This course includes the erecting of perpendiculars by the 3-4-5 method by means of a chain or by poles, the laying out of right angles for the digging of cellars or the building of walls, the getting of areas of triangular fields by measuring the bases and altitudes, the dividing of irregularly shaped fields into triangles and trapezoids, making measurements and computing the areas of the fields, the establishing of a north and south line for a basis in setting buildings and building fences, the methods of constructing leveling instruments for use where great accuracy is not required, and the establishing of grades for walks, roads and ditches.

Feeds and Feeding 4h.

This course covers the principles of animal nutrition as regard economical production, rations and feed stuffs. The management of stock under the various farm conditions is taken up. Some practical work at the Farm is given with this course.

Fertilizers 2h.

The topics treated are: Meaning of soil fertility, advantage of natural manures over artificial fertilizers, direct and indirect effect of manures, comparative value of different forms of nitrogenous fertilizers, source and relative value of different phosphates, the importance of potash as a constituent of fertilizers, forms of potash, cost and comparative value of high-grade and low-grade fertilizers, home-mixing of fertilizers, interpretation of chemical analysis of fertilizers, and fertilizers best adapted to individual crops. Laboratory work accompanies the course.

Field Crops 5h.

This course makes a study of grasses suitable for meadows and pastures, the treatment of seeding and meadows, the method of laying down new pastures, the treatment of old pastures without replowing, and the methods of treating "paintbrush" and other weeds in pastures. A study is made of plant breeding, and the advantage of plant selection. Intensive study is given to wheat, corn, oats, barley, rye and buckwheat, the method of selection of seed potatoes and treatment of the crop, and to a study of alfalfa and other useful leguminous plants.

Food Adulterations 1h.

The Government food laws and methods of inspection are studied. Food materials are tested by simple methods for some of the common adulterants.

Food Study 3h.

The source of supply, preparation for market, and cost of our common food materials are studied. The relative values of foods as to digestibility and uses in the body also are considered.

Forestry 2h.

The course studies the following problems: The use of the farm wood-lot, how a well kept wood-lot increases the selling price of the farm, thinning to improve conditions of growth, cutting of mature trees in such a manner that the succeeding growth may be helped, clear timber, necessity for removing dead or diseased trees, protecting wood-lot from fire, relative value of forests grown from sprouts and from seedlings, and sowing seed or planting seedlings on waste pasture land and the necessity of removing grazing animals from the young forests.

Forge Work 4h.

This is a study of the fundamental operations of working iron either cold or hot. The student is taught first how to make a practical forge and how to build and manage the fire to get the best practical results. During the latter part of the course the boys learn how to make from steel some of the tools found useful on the farm.

Gardening 2h.

The course in Gardening takes up the problems connected with the management of the farmer's ideal fruit and vegetable garden. The problems naturally dealt with therefore are principally those connected with the culture of bush and small fruits, and of vegetables. Attention will be given to hotbeds and coldframe management. Laboratory practice will be given in the soil and green house laboratories.



Plant Diseases

Home Decoration 2h.

The decoration of the interior of a house is an important factor in home life. A study is made of decorative plans as governed by the lines in a room. Color effects, light and shade are also considered.

Home Nursing 3h.

The sick room, its furnishings and care are important points in the home care of the sick; these and how to keep the bed in proper order and to perform the many little things required by the patient, are considered. Attention is given to the nursing of special and contagious diseases. A study is made of disinfectants and their uses.

Household Bacteriology 1h.

A study is made of the molds and bacteria as friends and foes of the housekeeper. Means for the preservation of foods, and the keeping of the house in a sanitary condition are studied.

Household Management 2h.

This course takes up the house, its plan, and arrangement of rooms. Suitable furnishings are discussed with lessons on the care of them. The general management of the house includes the keeping of accurate accounts, the buying of supplies, and the general system and order in the household.

Household Sanitation 2h.

This subject takes up the hygiene of the home. Heating, lighting, ventilation and water supply are discussed. The proper disposal of waste and methods of disinfecting such waste are considered.

House Plans 2h.

This course will consist for the most part of lectures upon the arrangement of the rooms in the farm house, the relation of the doors and windows to the inside, the location of such built-in features as are desirable, and the planning of proper sanitary conditions. Some work will also be given in the use of the common woodworking tools and in the building of a few conveniences for the home.

History I and II 3h and 5h.

This course offers a short survey of ancient, mediæval and modern history. Special emphasis is placed upon the development of western Europe, and of the rise of modern industries. The latter part of the course is given over to the study of American History.

Hygiene 2h.

This course opens with a general consideration of cells, tissues and organs. Then follows special work on the animal cell, food and digestion, assimilation, alimentation, blood, respiration, nerves, alcohol and narcotics, and principles of personal hygiene. Lectures and recitations will be about equal with laboratory work.

Insect Pests 3h.

This course considers the structure of insects, the method of insect respiration, the method of reproduction and different stages of insect life, biting and sucking insects, specific insects injurious to fruit and crops, time and method of treatment to prevent injury from insects, and insects which destroy pests. Much laboratory work will be done from preserved specimens, from the study of the insects kept in breeding cages, and from actual field work.

Landscape Gardening 2h.

This course in a series of lectures supplemented with lantern slides and excursions will attempt to impress upon students the intrinsic value of the beautiful in the arrangement of buildings, walks, roads, and lawns of the home site. Rural art and the understanding and appreciation of its principles is the object sought in the course.

Laundry 1h.

Practical work is given in the methods of laundry work. A study is made of stains and their removal, also reagents used in cleansing, such as soaps, cleansing fluids and bluing.



Barn on State Farm

Millinery

I. 2h. Fall and winter millinery are studied. Materials, colors and combinations are discussed. Old materials are renovated and used where possible. A hat frame of buckram is made and covered.

II. 1h. In spring millinery, the use of braids and suitable trimmings are taken up. A wire frame is made, covered with braid and trimmed.

Orcharding 3h.

This course will consider the problems of orcharding from the standpoint of orchard management ideally practicable to the farmer. Incidentally commercial orcharding features will receive attention. All the problems of orcharding from selecting and preparing orchard sites, to picking, marketing, and storing the harvest will be duly recognized in class room, laboratory and field practice.

Physics 3h.

This study begins with a review of the Metric System, Pascall's Law and the Law of Archimedes. Density, specific gravity, centrifugal force, cohesion and capillarity are studied through demonstra-

tion, study and application. Following this are studies of the barometer, pump, water-ram and siphon; the heating and ventilation of farm buildings; laws of inertia, levers and pulleys; inclined plane applied to the draft on hills; method of lessening the draft on wagons and plows; the principles of electricity applied to the construction of the battery, door bell and telephone; and methods of protecting farm buildings from lightning.

Poultry I and II 2h.

This course runs throughout the year and deals with the different subjects and operations at the proper season as far as possible. It takes up poultry house construction; the study of the history and characteristics of the important breeds; breeding, rearing and management of fowls for egg and for market production; and incubator and brooder practice.

Rural Sociology 1h.

This is a lecture course in which the origin, development, status and trend of our civilization is considered. Special reference is made to present rural problems, such as; co-operative movements, parcels post, highway and transportation improvement; the rural school, church, and the social outlook of the country.

Sewing

I. 2h. The first work in sewing is entirely hand sewing. The various stitches used in finishing are given; such as, hemming, overhanding and stitching. This is followed by darning, patching, and the making of buttonholes. The making of a small apron by hand completes this course.

II. 3h. The use of the sewing machine is introduced in this course. The term's work includes the drafting and cutting of patterns and the making of a complete set of underwear.

III. 2h. Patterns are drafted for children's garments. A child's dress is made.

IV. 3h. Shirtwaist and skirt patterns are drafted. A shirtwaist suit of thin material is made.

V. 3h. A study of textiles is given more time in this course. The practical work is the making of a wool dress.

VI. 2h. The final course in sewing consists in the making of the graduation gown.

Soils 3h.

This course considers the function of the soil as furnishing root hold and plant food; the influence of ice, water and erosion on the origin of the soil, the physical composition of the soil as determined



Luncheon Service Class in Dining Room



Cooking Class in Kitchen

by grading sieves, soil tubes and sedimentation; kinds and textures of soils and their relation to air, drainage, temperature and depth of root penetration; chemical composition of soils and plant foods they contain, and the importance of moisture and the methods of controlling the water content of soil.

Stock Judging 2h.

This is an advanced course in Live Stock Judging. It consists of the scoring and judging of animals of the different breeds and classes that are to be had from the Farm or from neighboring farmers.

Veterinary Studies 3h.

A study of the physiology and functions of the various organs of farm animals and the treatment from the farmer's standpoint of the common diseases and accidents to which farm animals are liable.

Woodworking I and II 4h.

In this course the students learn the characteristics of a number of the different woods native to this section and their use upon the farm. They are taught the proper use of the common wood-working tools and how to keep them in shape. A large number of practical things are made which the students take home for use, such as tool handles, jockies, neckyokes, single trees, double trees, etc. Whenever the work requires it, elementary forging, rope splicing, painting, etc., are taught in connection with this course.

Woodworking for Girls 2h.

The object of this course is to teach the girls how to use the common woodworking tools in the making of useful articles for the home.

Civics 2h.

This course familiarizes the student with the purpose and working of local, state, and national governmental institutions.

Music 1h.

The object of music study in the School is that of developing an appreciation of music in its many phases as a proper, necessary and integral part of life. Therefore, chorus, glee club, and part-song; instrumental clubs; and solo work will severally be developed as time and talent of students permit.

Plant Diseases 3h.

This course is planned to apply the facts developed in the course in Botany to the practical problems of plant diseases as raised in crop, garden and orchard management.



Milk Testing Laboratory



View of University Campus—Agricultural Hall in the Distance

List of Students in the Regular Three-Year Course

Fannie Allen,	Alfred Station, N. Y.
Collin Armstrong,	Fayetteville, N. Y.
Harry Austin,	Alfred Station, N. Y.
Allison Baker,	Wellsville, N. Y.
Carleton Baker,	Greenwood, N. Y.
Phoebe Bassett,	Alfred, N. Y.
Gordon Boynton,	Hornell, N. Y.
Harold Bradley,	Branford, Conn.
Elbert Burdick,	Alfred, N. Y.
Fredora Burdick,	Alfred, N. Y.
Glenn Burdick,	Alfred Station, R. F. D. 1.
Ira Burdick,	Alfred, N. Y.
Foster Cady,	Troupsburg, N. Y.
Maude Coon,	Alfred, N. Y.
Clara Ferris,	Cuba, N. Y.
Fred Ferris,	Cuba, N. Y.
Clarence Ferry,	Almond, N. Y.
Edith Francisco,	Elm Valley, N. Y.
Wallace Francisco,	Elm Valley, N. Y.
Horace French,	Cuba, N. Y.
Frank Graham,	Belmont, N. Y.
Herbert Green,	Cuba, N. Y.
Wm. Greene,	Friendship, N. Y.
Harry Hopkins,	Middletown, N. Y.
Arnold Jackson,	Castile, N. Y.
Will Jacox,	Alfred, N. Y.
Irving Jones,	Alfred, N. Y.
Paul Mabey,	Cuba, N. Y.
Asa Merriam,	Scio, N. Y.
Myron Morton,	Alfred, N. Y.
Wyan Ordway,	Jasper, N. Y.
Leslie Palmer,	Alfred, N. Y.
John Phippen,	Belmont, N. Y.
Leona Place,	Alfred, N. Y.
A. H. Remsen,	Bayville, N. Y.
Clifford Schenck,	Jasper, N. Y.
Ellen Sherman,	Alfred Station, N. Y.
Richard Smalley,	Friendship, N. Y.
Homer Stockwell,	Almond, N. Y., R. F. D.
Joseph Upham,	Syracuse, N. Y., 419 Allen St.
Ralph Van Buskirk,	Syracuse, N. Y.
Ann Vincent,	South Dayton, N. Y.
Gertrude Wakeman,	Hornell, N. Y.
Lawrence Wasson,	Cuba, N. Y.
Ray Welch,	Coudersport, Pa.
Wm. Whitford,	Brookfield, N. Y.

APPLICATION FOR ADMISSION
to the
STATE SCHOOL OF AGRICULTURE
at Alfred University, Alfred, N. Y.

.....1910

1. Name..... Age.....
2. Postoffice County
3. Name of Parent or Guardian.....
4. How far advanced are you in the following studies:
Science.....
Mathematics
Geography
History
Reading.....
Grammar or Rhetoric
5. Have you good health?
6. How much money will you have to earn in order to stay in
School six months?.....

Brief remarks may be added on the other side of this form.

Do not make out this form unless you fully expect to come.

If you can come for the first term, opening October 17th,
plan to arrive at Alfred on Monday forenoon.

Send in this application as early as possible, so that ample
boarding accommodations can be arranged for.

O. S. MORGAN, Director,
Alfred, N. Y.

